

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number  
**WO 2005/051326 A2**

- (51) International Patent Classification<sup>7</sup>: **A61K**
- (21) International Application Number:  
PCT/US2004/039680
- (22) International Filing Date:  
23 November 2004 (23.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/524,698 24 November 2003 (24.11.2003) US
- (71) Applicant (for all designated States except US): **OPTIMER PHARMACEUTICALS, INC.** [US/US]; 10110 Sorrento Valley Road, Suite C, San Diego, CA 92121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ICHIKAWA, Yoshitaka** [JP/US]; 4848 Algonquin Court, San Diego, CA 92130 (US). **OKUMU, Franklin, W.** [US/US]; 3066 Palm Street, San Diego, CA 92104 (US). **LOTZ, Martin** [DE/US]; P.O. Box 1513, La Jolla, CA 92038 (US).
- (74) Agent: **CATALYST LAW GROUP, APC**; 4330 La Jolla Village Drive, Suite 220, San Diego, CA 92122 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**  
— of inventorship (Rule 4.17(iv)) for US only
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TREATMENT OF A CONDITION IN A MAMMAL WITH ADMINISTRATION OF COMPOUNDS AND METHODS OF USE THEREOF

(57) Abstract: This invention relates to methods of treating, preventing, and lessening the severity of conditions or diseases selected from the group consisting of osteoarthritis (OA), rheumatoid arthritis, synovitis, subchondral bone edema, and cartilage degradation ("OA and related disorders") with administration of an aminosugar derivative and pharmaceutically acceptable salts thereof.

WO 2005/051326 A2